investment = int(input("Enter the investment amount (greater than 0 and less than 50000): "))

while investment < 0 or investment > 50000:

    print ("Your investment is out of range!")

    investment = int(input("Enter the investment amount (greater than 0 and less than 50000): "))

rate = int(input("Enter the interest rate (greater than 0 and less than 15): "))

while rate < 0 or rate > 15:

     print ("Your rate is out of range!")

     rate = int(input("Enter the interest rate (greater than 0 and less than 15): "))

years = int(input("Enter the investment duration in years (greater then 0): "))

while years < 0:

    print ("years need to be greater than 0")

    years = int(input("Enter the investment duration in years (greater then 0): "))

month = years \* 12

monthRate = (rate / 12) / 100

total = 0.0

counter = 0

for month in range(1, month+1):

    total += investment

    total += round((total \* monthRate),2)

    if month % 12 == 0:

        print("Year", int(month/12), ": $", round((total),2))

print ("Investment Duration: " + str(years) + " years")

print ("Yearly Interest Rate: " + str(rate) + "%")

print ("Monthly investment Amount: $" + str(investment))

print ("Total Amount of Investment After Compounding: $" + str(round((total),2)))

print ("Completed by Samuel Simmons")

(run)

Enter the investment amount (greater than 0 and less than 50000): 1500

Enter the interest rate (greater than 0 and less than 15): 6

Enter the investment duration in years (greater then 0): 10

Year 1 : $ 1507.5

Year 2 : $ 20196.35

Year 3 : $ 40037.87

Year 4 : $ 61103.17

Year 5 : $ 83467.74

Year 6 : $ 107211.72

Year 7 : $ 132420.2

Year 8 : $ 159183.46

Year 9 : $ 187597.4

Year 10 : $ 217763.84

Investment Duration: 10 years

Yearly Interest Rate: 6%

Monthly investment Amount: $1500

Total Amount of Investment After Compounding: $247048.17

Completed by Samuel Simmons